

**TOP SECRET**

25X1

6 August 1965

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Page 1PROBABLE AIR WARNING RADAR SITE

SAM SITE BO6-2 LUGOVOYE, USSR

1. LUGOVOYE SAM SITE BO6-2 WAS FIRST IDENTIFIED AND OBSERVED COMPLETED ON [REDACTED] AND HAS BEEN OBSERVED ON 20 SUBSEQUENT KH MISSIONS WITH NO APPARENT CHANGES NOTED. 25X1
2. THIS MISSION REVEALS FOUR EARTHEN RADAR MOUNDS ADJACENT TO AND WITHIN THE SAME SECURITY FENCE AS LUGOVOYE SAM SITE BO6-2. THE MOUNDS ARE OCCUPIED BY TWO PROBABLE BACK NET RADARS AND TWO PROBABLE SIDE NET RADARS. A PROBABLE TALL KING RADAR ANTENNA IS SEPARATELY FENCED JUST TO THE EAST OF THE SAM/BACK NET/SIDE NET FACILITIES.
3. TALL KING IS A SOVIET EARLY WARNING RADAR WITH AN ESTIMATED RANGE OF 250 NM AGAINST A MEDIUM BOMBER-SIZE TARGET AT 50,000 FT, AND A 400 NM RANGE AGAINST A ONE SQUARE METER TARGET AT ALTITUDES OVER 120,000 FT. THE OVER-ALL HEIGHT MEASURES ABOUT 80 FT WITH AN ANTENNA REFLECTOR [REDACTED] 25X1

SIDE NET IS THE MOST ADVANCED SOVIET HEIGHT-FINDER RADAR WITH A MAXIMUM EFFECTIVE RANGE OF ABOUT 180 NM. THE PARABOLIC

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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REFLECTOR MEASURES ABOUT [REDACTED]

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BACK NET IS A NEW SOVIET EARLY WARNING-TYPE RADAR. THE RADIATION CHARACTERISTICS AND CAPABILITIES ARE UNKNOWN. IT IS A VAN-MOUNTED RADAR WITH ANTENNA ASSEMBLY CONSISTING OF TWO LARGE PARABOLIC REFLECTORS POSITIONED BACK-TO-BACK, ONE ON EACH SIDE OF THE LONG AXIS OF THE VAN. THE LARGER REFLECTOR IS ESTIMATED TO BE ABOUT [REDACTED] THE SMALLER REFLECTOR IS ESTIMATED TO BE ABOUT [REDACTED]

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**PROBABLE AIR WARNING RADAR SITE**  
**SAM SITE B06-2 LUGOVOYE, USSR**  
**43-06-30N 73-02-10E**

25X1  
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40X ENLARGEMENT

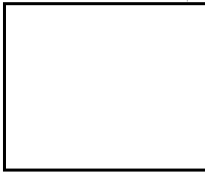
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